



1/5

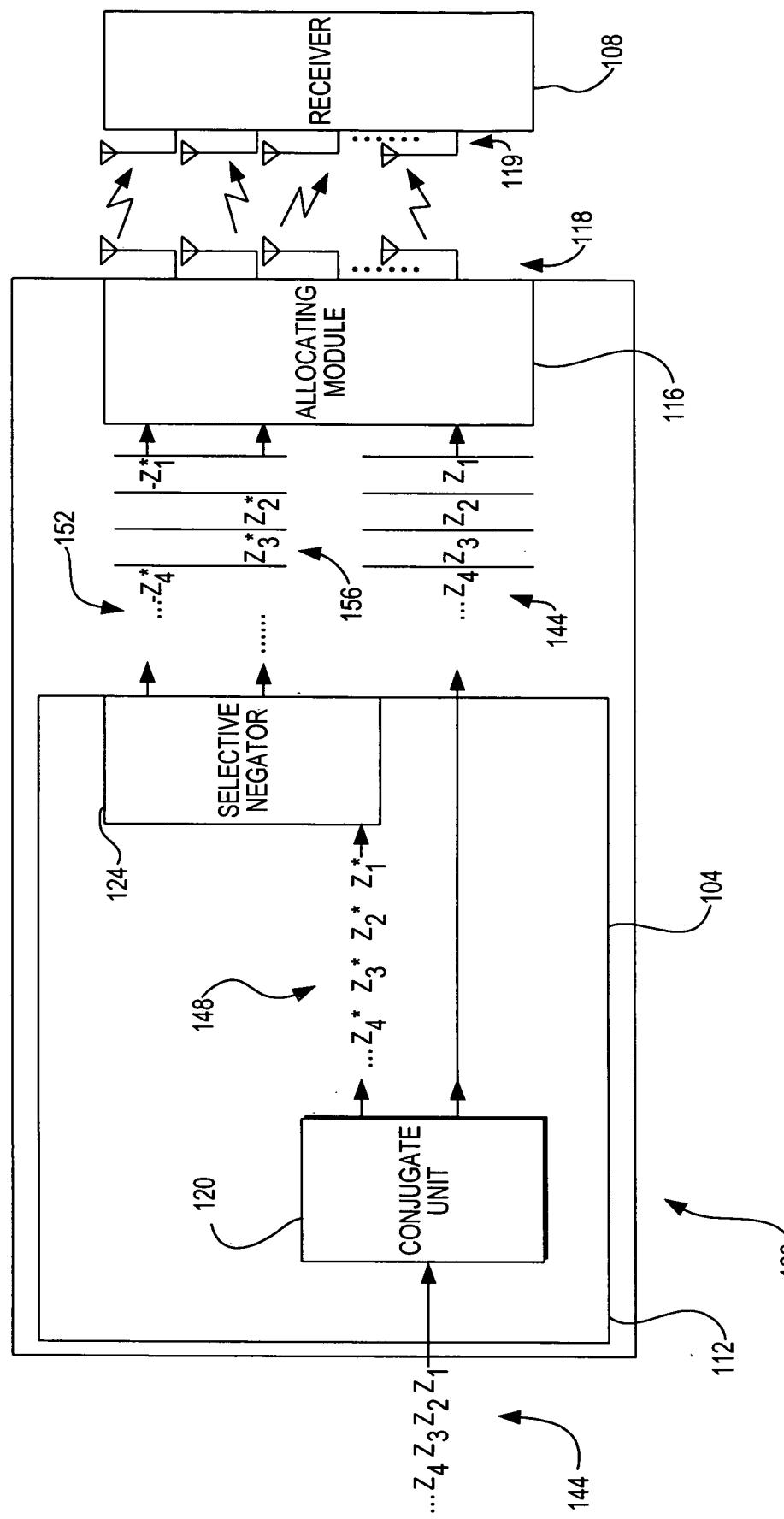


FIG. 1

$$\begin{aligned}
 \text{SLOT} = & \begin{bmatrix} z_1 & z_5 \dots z_{4n-3} & \text{PILOTS} & z_{4n-2}^* \dots z_6^* & z_2^* \\ z_2 & z_6 \dots z_{4n-2} & \text{PILOTS} & -z_{4n-3}^* \dots -z_5^* & -z_1^* \end{bmatrix}^+ \\
 & \begin{bmatrix} \tilde{z}_7 \dots \tilde{z}_{4n-1} & \text{PILOTS} & -\tilde{z}_{4n}^* \dots -\tilde{z}_8^* & -\tilde{z}_4^* & \\ \tilde{z}_8 \dots \tilde{z}_{4n-2} & \text{PILOTS} & z_{4n-1}^* \dots z_7^* & z_3^* & \end{bmatrix}^+ \\
 & \begin{bmatrix} z_4 & z_3 & z_2 & z_1 & \end{bmatrix}^+
 \end{aligned}$$

Diagram illustrating the structure of the SLOTS matrix. The matrix is composed of two main parts: a top section and a bottom section. The top section is a 2x5 matrix with columns labeled PILOTS,  $z_{4n-2}^* \dots z_6^*$ ,  $z_2^*$ ,  $-z_{4n-3}^* \dots -z_5^*$ , and  $-z_1^*$ . The bottom section is a 2x5 matrix with columns labeled PILOTS,  $-\tilde{z}_{4n}^* \dots -\tilde{z}_8^*$ ,  $-\tilde{z}_4^*$ ,  $z_{4n-1}^* \dots z_7^*$ , and  $z_3^*$ . The matrix is labeled "SLOTS" on the left. To the left of the matrix, there are two curved arrows: one pointing upwards labeled "200" and one pointing downwards labeled "250". To the right of the matrix, there are two vertical arrows: one pointing upwards labeled "230" and one pointing downwards labeled "240".

FIG. 2

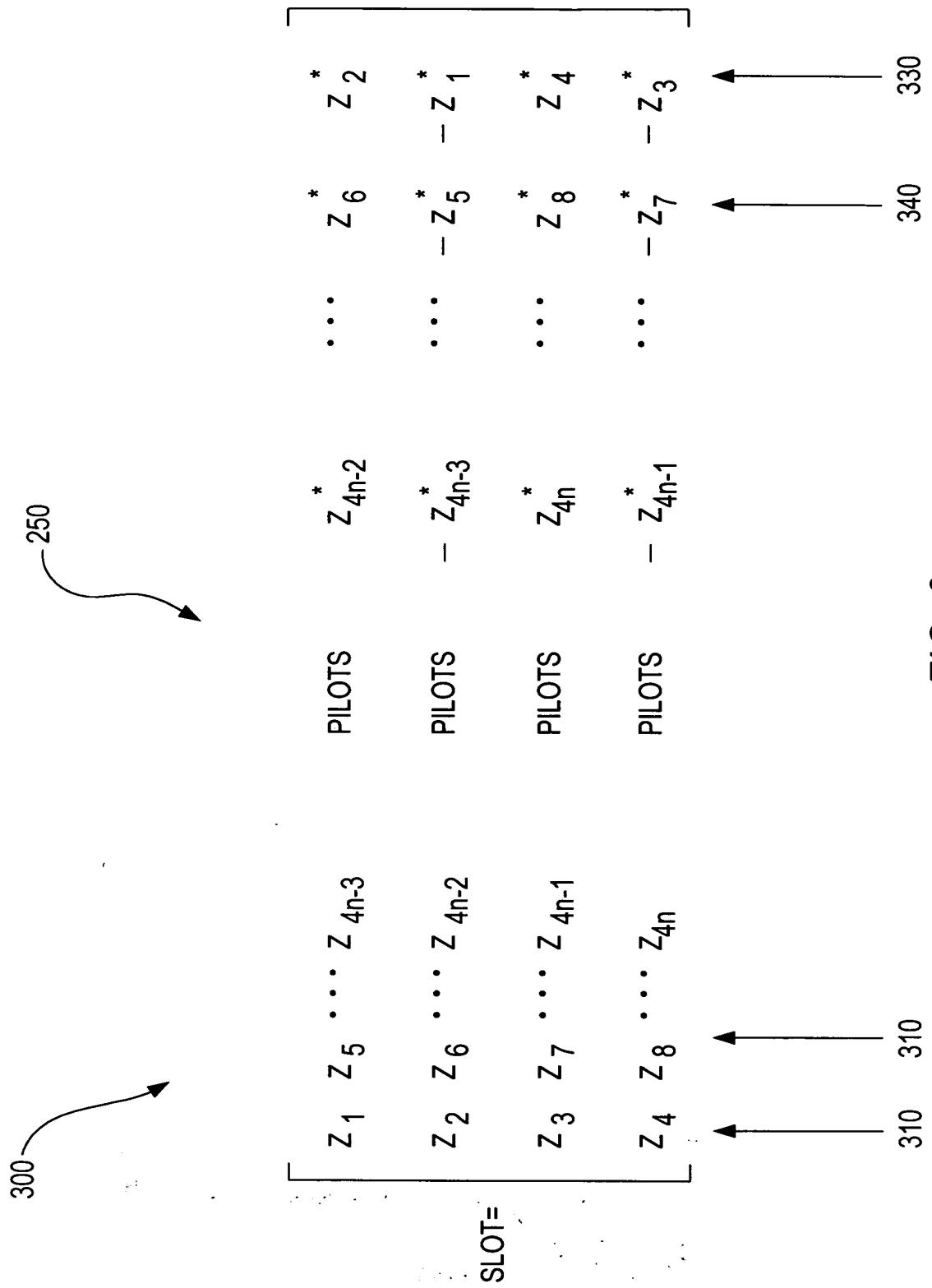
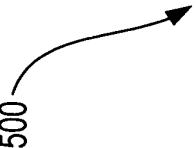


FIG. 3

400

$$\text{SLOT} = \left[ \begin{array}{cccccc}
 z_1 & z_7 & \cdots & z_{6n-5} & \text{PILOTS} & z_{6n-4}^* & \cdots & z_2^* \\
 z_2 & z_8 & \cdots & z_{6n-4} & \text{PILOTS} & -z_{6n-5}^* & \cdots & -z_1^* \\
 z_3 & z_9 & \cdots & z_{6n-3} & \text{PILOTS} & z_{6n-2}^* & \cdots & z_4^* \\
 z_4 & z_{10} & \cdots & z_{6n-2} & \text{PILOTS} & -z_{6n-3}^* & \cdots & -z_3^* \\
 z_5 & z_{11} & \cdots & z_{6n-1} & \text{PILOTS} & z_{6n}^* & \cdots & z_6^* \\
 z_6 & z_{12} & \cdots & z_{6n} & \text{PILOTS} & -z_{6n-1}^* & \cdots & -z_5^*
 \end{array} \right]$$

FIG.4

500 

$$\text{SLOT} = \begin{bmatrix}
 Z_1 & Z_5 & \cdots & Z_{4n-3} & Z_3 & Z_7 & \cdots & Z_{4n-1} & \text{PILOTS} & -Z_{4n-2}^* & \cdots & -Z_6^* & -Z_2^* & -Z_{4n}^* & \cdots & -Z_8^* & -Z_4^* \\
 Z_2 & Z_6 & \cdots & Z_{4n-2} & Z_4 & Z_8 & \cdots & Z_{4n} & \text{PILOTS} & Z_{4n-3}^* & \cdots & Z_5^* & Z_1^* & Z_{4n-1}^* & \cdots & Z_7^* & Z_3^* \\
 Z_3 & Z_7 & \cdots & Z_{4n-1} & Z_1 & Z_5 & \cdots & Z_{4n-3} & \text{PILOTS} & -Z_{4n}^* & \cdots & -Z_8^* & -Z_4^* & -Z_{4n-2}^* & \cdots & -Z_6^* & -Z_2^* \\
 Z_4 & Z_8 & \cdots & Z_{4n} & Z_2 & Z_6 & \cdots & Z_{4n-2} & \text{PILOTS} & Z_{4n-1}^* & \cdots & Z_7^* & Z_3^* & Z_{4n-4}^* & \cdots & Z_5^* & Z_1^*
 \end{bmatrix}$$

FIG. 5